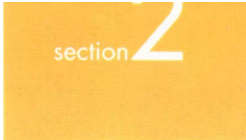




DC Controllers



540 Series Analogue Drives 540/541

Offering speed or torque control of dc motors with full load currents up to 35A, these full-featured drives have very comprehensive isolated control interfacing, making them ideal for stand-alone use or for incorporating into multi-motor systems.

Versatile inbuilt control facilities allow many control systems such as Master/Slave operation and Loadsharing to be implemented without the need for additional external process instruments. Typical full load speed holding is 0.1%, and with tacho' feedback the speed range is better than 100:1.

Both the single quadrant (541) and regenerative (540) versions are available within the same design package. Separate power and control supply inputs permit a wide range of voltages to be accommodated.

The ambient temperature operating range is 0 to +55°C (derate above 45°C) with 85% RH (non-condensing).

The type 5570 diagnostic unit can be used for commissioning and trouble shooting.

Full motor protection facilities are inbuilt, with an overload capacity of 150% for 30 seconds/200% for 10 seconds and an input for motor thermal protection device.

For armature voltage feedback type 5590 unit is required, see opposite for details.

Facilities 540/541

- Separate Up & Down speed ramps.
- Torque or Speed control
- Status and Alarm LED indication
- Fully isolated control terminals
- +10V dc reference (10mA)
- -10V dc supply (10mA)
- +24V supply (50mA)
- Zero speed relay
- Health relay
- Up to 4 speed setpoint inputs
- Isolated speed and current metering signals
- Motor thermistor input

Protection 540/541

- Interline device networks
- Inbuilt Field supply with loss protection
- Inbuilt supply fuses
- MOV transient suppression
- Motor overtemperature trip
- Instantaneous overcurrent trip
- Inverse time overcurrent trip

Product Technical Specification

Controller Type	Control Type Current (A)	Max. Current Rating (A)	Mains Power Supply (V) 50/60Hz	Control Power Supply (V) 50/60Hz	Weight (kg)
540	4Q	25	1 phase	1 phase	7
		35			7
541	2Q	25	110/220/240/	110/115/220/240	7
		35	380/415/440/480		7
5401	FIELD	20			4.4

Products in this range are supplied to your exact calibration requirements, which should be specified when ordering.

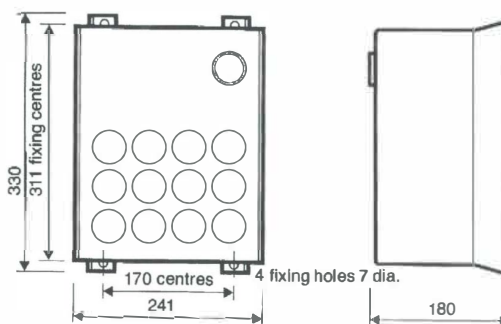
5401

Complementary to the 540 and 590 Analog series drives, the 5401 allows field weakening (Constant power range) control of shunt wound dc motors, or can be used as a constant current controller for applications requiring precise field excitation.

The control linearity is better than 2%, with a maximum weakening ratio of 10:1.

Protection for motor armature overvoltage and loss of tacho' feedback are included. All control terminals are isolated from the power circuits.

Type 540 541



Type 5401

